

VOM MEERESBODEN ZUR ATMOSPÄRE

ISOS-course

My Data - My Publication - My Rights?

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Data

- Data life cycle
- Publication of data: When? Where? Why? How?
- How to cite data?
- Data management services and contact persons

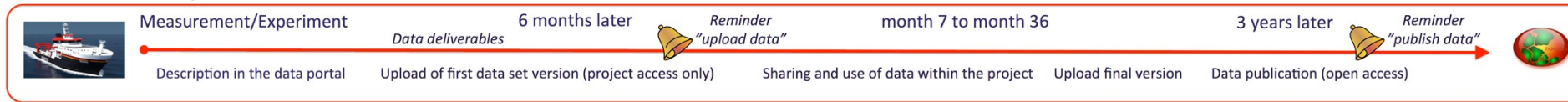
Publications

- Publication of your article: Where? How?
- Specific legal frameworks of the top journals in YOUR field for future publications
- Library services and contact persons

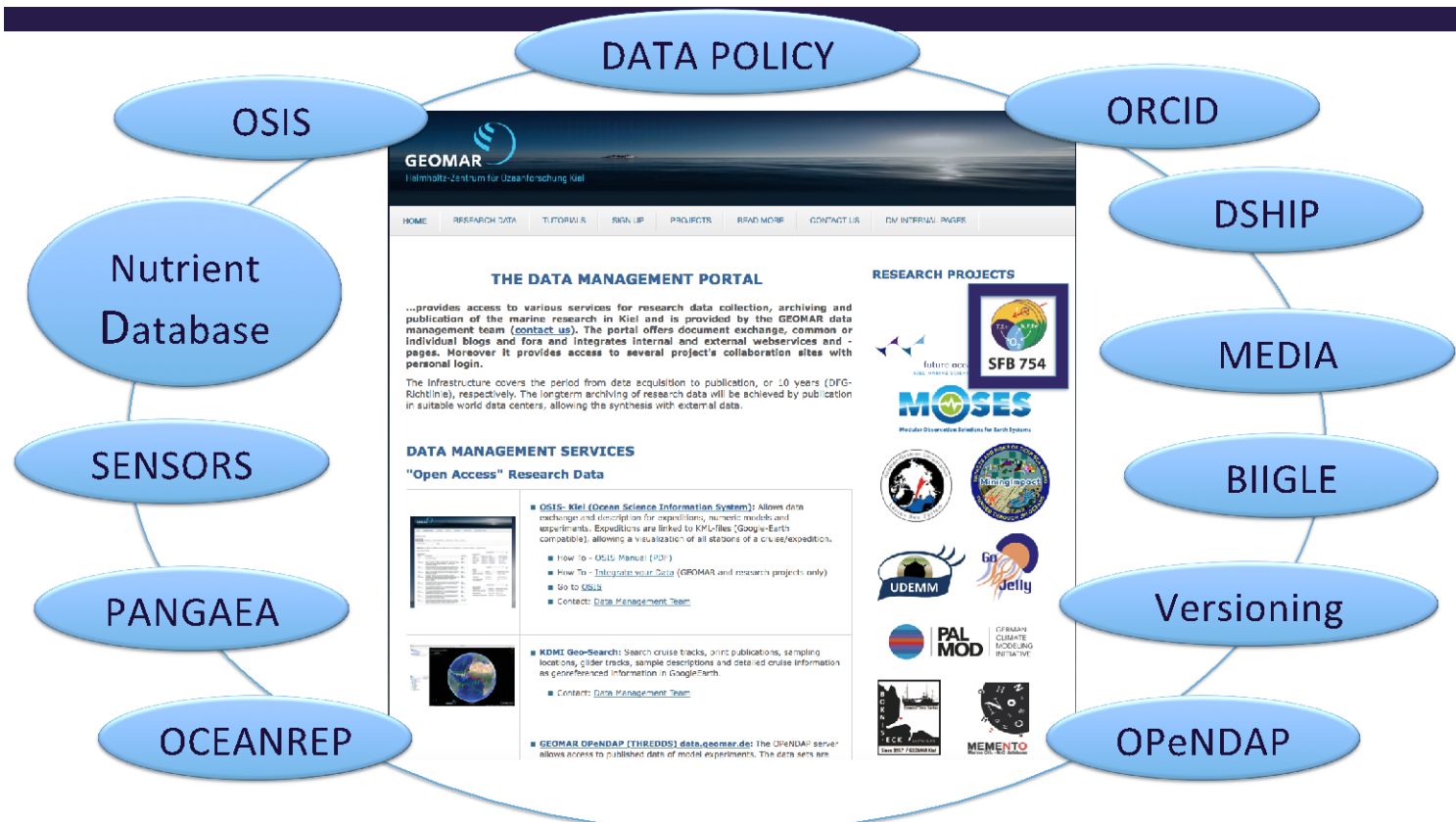
My data - my duties?

- DFG: Gute wissenschaftliche Praxis (10 years)
- EU: Data pilot, Data management plans
- Helmholtz: data guidelines until end of 2018
- GEOMAR: rules in your working contract
- your department: examples of best practise

Data curation process



- Measurement
- Description (Metadata)
- Analysis
- Sharing
- Publication



METADATA - WHAT?

- **Where:** latitude, longitude, depth / height
- **When:** date and time in UTC!
- **How:** gear, method, cruise, lab
- **Who:** person with contact address (email)
- **Identifier:**
 - event id (from stationlist),
 - custom label only additional



03 apr 09, 10:03 AM

How to exchange data in a project/ working group?



- **PORTAL:** (<https://portal.geomar.de>)
- **OSIS:** Ocean Science Information System (<https://portal.geomar.de/osis>)
- **Subversion / Git:** Versioning systems
- **FILE SYSTEMS** in working groups
- **GEOMAR cloud**

Publication of data: When, where, why and how?

WHERE:

- Data centres: PANGAEA, GenBank, ...
- Other repositories: zenodo, dryad, ...

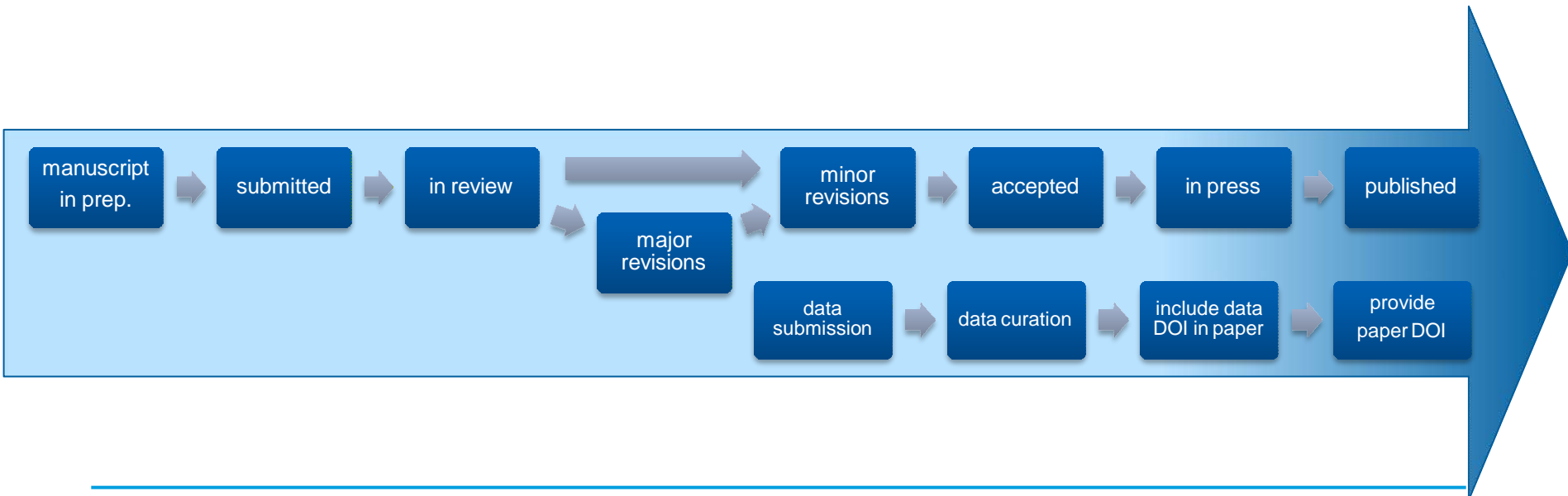
WHY:

- The publisher ask for it
- The funder ask for it
- Your impact is more visible

HOW:

- Tutorials on portal.geomar.de

Paper Publication Workflow: Timeline for data submission



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Particulate matter flux interception in oceanic mesoscale eddies by the polychaete *Poeobius* sp..

Christiansen, Svenja , Hoving, Henk-Jan T., Schütte, Florian, Hauss, Helena, Karstensen, Johannes , Körtzinger, Arne, Schröder, Simon-Martin, Stemmann, Lars, Christiansen, Bernd, Picheral, Marc, **Brandt, Peter** , Robison, Bruce, Koch, Reinhard and **Kiko, Rainer**  (2018) *Particulate matter flux interception in oceanic mesoscale eddies by the polychaete *Poeobius* sp..*  *Limnology and Oceanography*, 63 (5). pp. 2093-2109. DOI [10.1002/lno.10926](https://doi.org/10.1002/lno.10926).



Text
Christiansen_et_al-2018-Limnology_and_Oceanography.pdf - Published Version
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Official URL: <http://dx.doi.org/10.1002/lno.10926>

Supplementary data: 

Abstract

Gelatinous zooplankton hold key functions in the ocean and have been shown to significantly influence the transport of organic carbon to the deep sea. We discovered a gelatinous, flux-feeding polychaete of the genus *Poeobius* in very high abundances in a mesoscale eddy in the tropical Atlantic Ocean, where it co-occurred with extremely low particle concentrations. Subsequent analysis of an extensive in situ imaging dataset revealed that *Poeobius* sp. occurred sporadically between 5°S–20°N and 16°W–46°W in the upper 1000 m. Abundances were significantly elevated and the depth distribution compressed in anticyclonic modewater eddies (ACMEs). In two ACMEs, high *Poeobius* sp. abundances were associated with strongly reduced particle concentrations and fluxes in the layers directly below the polychaete. We discuss possible reasons for the elevated abundances of *Poeobius* sp. in ACMEs and provide estimations showing that a single zooplankton species can completely intercept the downward particle flux by feeding with their mucous nets, thereby substantially altering the biogeochemical setting within the eddy.

Document Type: Article

How to cite the data?

- **PANGAEA:**

- Blanchet, Cécile L; Frank, Martin; Schouten, Stefan (2014): Biomarker and radiogenic isotopes from sediment core POS362-2_33. doi:10.1594/PANGAEA.828054,
Supplement to: Blanchet, CL et al. (2014): Asynchronous changes in vegetation, runoff and erosion in the Nile River watershed during the Holocene. PLoS ONE, 9, doi:10.1371/journal.pone.0115958

=> Supplementary data: doi:10.1594/828054

The data supplement is available at doi:10.1594/828054

- **Deposition of Sequence Data**

The sequencing projects were completed in 2013 and sequencing data was deposited in the Sequence Read Archive (SRA), metagenome assemblies as a Whole Metagenome Shotgun (WGS) projects in GenBank under the BioProject PRJNA318959.

Who is who in the data management team (KDMT)

- Hela Mehrtens: OSIS, OceanRep, databases, PANGAEA, ...
 - Pina Springer: Portal, CurationDIS, bathymetry, PANGAEA, ...
 - Lisa Paglialonga: tutorials, publish model output, ...
 - Claas Faber: Python NB, publish software ...
 - Carsten Schirnack: DSHIP, PostgreSQL, ProxSys, Git, ...
-
- Thilo Paul-Stüve, CAU (zentrales Forschungsdatenmanagement)
 - Dirk Fleischer, CAU (KMS – Daten- und Informationsmanagement)
 - Stella Thoben, Franziska Weng (SynFO)
 - Mirl Trösch, Axel Dennert (UniLLAP)
 - Emanuel Söding

- GEOMAR data policy
- data templates for research units

GEOMAR FE-Datenverantwortliche

Forschungseinheit	FE-Datenverantwortliche
FB1-ME: Maritime Meteorologie	Dr. Thomas Martin
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FB1-PO: Physikalische Ozeanographie	Dr. Gerd Krahmann
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FB2-CH: Chemische Ozeanographie	Dr. Toste Tanhua
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FB3-EOE-N: Experimentelle Ökologie - Nahrungsnetze	Dr. Birte Matthiessen
FB3-EOE-B: Experimentelle Ökologie - Benthosökologie	Prof. Dr. Frank Melzner
FB3-MI: Marine Mikrobiologie	Beate Slaby
FB3-MN: Marine Naturstoffchemie	Dr. Martina Blümel
FB4-GDY: Marine Geodynamik	Dr. Cord Papenberg
FB4-MUHS: Magmatische und hydrothermale Systeme	Dr. Nico Augustin

Where and how do I publish?

- „Traditional“ Journals (commercial) (pay for journal to have access)
- Hybrid (= open access article in a traditional journal, additional payment for OA)
- Open Access Journals (author pays for publication of the article – everybody has access)
- „Second publication right“ (Green open access) (e.g. final draft, in repository – no costs)

What is the difference...?

Traditional (Commercial)

- ☹️ Copyright goes to publisher
- 😊 Mostly author only pays for coloured fig.(depends on publisher)
- ☹️ publishing in a traditional journal takes sometimes years
- ☹️ Doesn't meet requirements from funder
- ☹️ Less citations because limited access

Hybrid

- ☹️ Double payment: Author pays for OA-option (~3000-5000 (!) Euro per article) and people pay for journal
- ☹️ publishing in a traditional journal takes sometimes years
- ☹️ Some funder don't accept Hybrid publications
- 😊 Free access to results of publicly funded research
- 😊 Greater visibility and citation frequency (Evaluation!)

OA

- 😊 Author keeps copyright
- ☹️ Author pays for publication (~1500 Euro per article)
- 😊 Free access to results of publicly funded research
- 😊 Greater visibility and citation frequency (Evaluation!)
- 😊 The author can decide which license
- 😊 Article is made public very quickly
- 😊 Good findability via search engines and reference services
- 😊 Open peer-review process
- 😊 Open discussion: the work is immediately published so nobody else can steal your results
- 😊 Meets requirement from funder
- 😊 Often funder refund APCs

Second publ.

- 😊 OA immediately or after embargo
- ☹️ => not easy to find out on publishers websites
- 😊 Author pays nothing
- 😊 Meets requirements from funder
- ☹️ Not final publishers version – missing volume and page numbers in pdf

Different funder have different requirements

- EU
=> open access **mandatory**
 - BMBF
=> „**should be** published on an open-access basis“
 - DFG
=> „**should be** published on an open-access basis“
 - Others?
- ⇒ Most of the funder refund the APCs for open access – ask your contact person!
- ⇒ Or look it up: Research Funders' Open Access Policies: <http://v2.sherpa.ac.uk/juliet/>

- EU - OpenAIRE2020 will assist in **monitoring H2020 research outputs** and will be a key infrastructure **for reporting H2020's scientific publications**
- **Others:** OpenAire plans to monitor BMBF funded publications as well



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